

05/09
12/11#5
OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/834,792

DATE: 12/06/2001
TIME: 15:11:32

Input Set : A:\Figs1-5.txt
Output Set: N:\CRF3\12062001\I834792.raw

4 <110> APPLICANT: Mount Sinai School of Medicine of NYU
 6 <120> TITLE OF INVENTION: TRP8, A TRANSIENT RECEPTOR POTENTIAL
 7 CHANNEL EXPRESSED IN TASTE RECEPTOR CELL
 10 <130> FILE REFERENCE: AP32911 070165.0589
 12 <140> CURRENT APPLICATION NUMBER: 09/834,792
 13 <141> CURRENT FILING DATE: 2001-04-13
 15 <150> PRIOR APPLICATION NUMBER: 60/197,491
 16 <151> PRIOR FILING DATE: 2000-04-17
 18 <160> NUMBER OF SEQ ID NOS: 5
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 4157
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Murine TRP8 cDNA
 27 <400> SEQUENCE: 1
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 29 agctcctgcc cccgcagccc cccagatact gaggatggct gggagccat cctatgcagg 120
 30 ggagagatca acttcggagg gtctgggaaag aagcgaggca agtttgcggaa ggtgccaagc 180
 31 agtgtggccc cctctgtgct ttttgaactc ctgctcaccg agtggcacct gccagcccc 240
 32 aacctgggtg tggccctggt gggtagggaa cgaccttgg ctatgaagtc gtggcttcgg 300
 33 gatgtcctgc gcaaggggct ggtgaaagca gtcagagca caggtgcctg gatcctgacc 360
 34 agtgcctcc acgtggccct gccccccat gttggacaag ctgtacgtg tcactctctg 420
 35 gctagcacat ccaccaagat ccgtgttagt gccatcgaa tggcctctt ggatcgaatc 480
 36 cttcaccgtc aacttctaga tgggttccac caaaaggagg atactcccat ccactaccca 540
 37 gcagatgagg gcaacattca gggacccctc tgccccctgg acagcaatct ctccacttc 600
 38 atccttgtgg agtcaggcgc ccttgggagt gggAACGACG ggctgacaga gctgcagctg 660
 39 agcctggaga agcacatctc tcagcagagg acaggttatg ggggcaccag ctgcattccag 720
 40 atacctgtcc tttgcctgtt ggtcaatggt gaccccaaca cccttagagag gatttccagg 780
 41 gcagtggagg aggtggccc atggctgatc ctggcagggtt ctgggtggcat tgctgatgta 840
 42 ctcgctgccc tggtagcca gcctcatctc ctgggtggccc aggtggctga gaagcagttc 900
 43 agagagaaat tccccagcga gtgtttctt tggaaagcca ttgtacactg gacagagctg 960
 44 ttacagaaca ttgctgcaca ccccccacctg ctcacagttt atgacttgcg gcaggagggt 1020
 45 tcggaggacc tggacactgt catcctcaag gcacttgcg aagcctgcaa gagccacago 1080
 46 caagaagccc aagactacct agatgagctc aagttacgcg tggcctggga tcgcgtggac 1140
 47 attgccaaga gtgaaatctt caatggggac gtggaaatggc agtccctgtg cttggaaagag 1200
 48 gtgatgacag atgcctcgt gaccaacaag cctgacttt tccgcctt tggacagc 1260
 49 ggtgctgaca tggcccgagtt ctggacactt gggcggtgc agcagttt ccattctgtg 1320
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 53 cagacgggc gcaggatgga ggagagaggg ccacctaagc ggcccgccagg ccagaagtgg 1560
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 56 gctgctctgg ctgcctgca gatcataaaag gaaatgtccc acctggagaa agaggcagag 1740
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 58 tgctacggca acagtggagg ccgtgcctt ggcacatgat gacgtggccctt ccacagctgg 1860
 59 agcaggacca cgtgcctgca cctggccact gaagctgtat ccaaggccat ctttggccat 1920

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60 gacggtgtgc aacatccct gaccaagatc tggggggag acatggccac aggcacaccc 1980
61 atcctacggc ttctgggtgc cttcacctgc ccagccctca tctacacaaa cctcatctcc 2040
62 ttcaagtggagg atgccccgca gaggatggac ctagaagatc tgcaggagcc agacagctt 2100
63 gatatggaaa agagcttcct atgcagccgg ggtggccat tggagaagct aacagaggca 2160
64 ccaagggctc caggcgatct aggcccacaa gctgccttcc tgctcacacg gtggaggaag 2220
65 ttctggggcg ctccctgtgac tgggttccctg gggaaatgtgg tcatgtactt cgcattcctc 2280
66 ttccctgttca cctatgtcct gctgggtggac ttcagccac caccggcagg gccgtctgga 2340
67 tccgagggtt ccctcttattt ctgggtgttc acactgggc tggagggaaat ccgcacaggc 2400
68 ttcttcacag atgaggacac gcacctgggt aagaattca ctctgtatgt ggaagacaac 2460
69 tggaaacaagt gtgacatggt ggcacatcttc ctgttcatgg tggaggtcac ctgtagaatg 2520
70 gtgccctcggtgtttgaggc tggcaggacc gttctggcca ttgacttcat ggtttcaca 2580
71 cttcggctca tccacatctt tgctattcac aagcagttgg gtcctaagat catcattgt 2640
72 gagcgaatga tgaaggatgt ctcttttcc ctcttcttcc tgagcgtatg gcttggcc 2700
73 tatgggtgtga ccactcaggc cctgctgcat ccccatgatg gccgtttgga gtggattttc 2760
74 cgcgcgtgtgc tatacaggcc ttacctgcag atcttggc aaatccctt ggatgaaatt 2820
75 gatgaggctc gtgtgaactg ttcttccatc cctctgtgc tggaaagctc ggcttctgc 2880
76 cctaattctt atgccaactg gtcggtcattt ctcctgtgg ttaccttcct gcttgcact 2940
77 aatgtgtcgc tcatgaacct tctgatgcac atgttcagct acacattcca ggtggtgc 3000
78 ggcacatgcacatgttctg gaagtttcaa cgctaccacc tcatacggttga ataccatgg 3060
79 agaccagctc tggcccccgc ctcacatcttgc ctcagccacc tgagcctggt gctcaagcag 3120
80 gtcttcaggaa aggaagccca gcataagcga caacatctgg agagagactt gcctgacccc 3180
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82 gagaacacgga ggaggacacg cgaggggggag gtgtctggaa aaacggcaca cagagtggac 3300
83 ttgattgcca aatacatcgg gggctgaga gagcaagaaa agaggatcaa gtgtctggaa 3360
84 tcacaggcca actactgtat gtccttcttgc tcctctatga cggatacact ggctccagga 3420
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86 agggagtacc tagagtctgg ctgccaccc tctgacaccc tggatggaga aaccacttgc 3540
87 tctagagccc cagacctggc cacatcgagt ttttggca catcaaccc ccccaactcc 3600
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89 cctaagagaa taaaactcat gtctttggca tctattcggg agcctcagaa gtatccctc 3720
90 cagcaggccca agattttca tggccacta aagcttccac tggcttggac tggacagctg 3780
91 gatctggcca agtccatcat agacacccat ctgcctggat gggcttattt aggtctaacc 3840
92 cctgttccatc cctgaggccatc taagaagccca acctttaaa cacttagttt ctttgc 3900
93 cctgacccac tcattagctg accagctccat agagggcagg actcagatct attgttaatta 3960
94 cctcccatct ttcacccccc acagcattat ctgtctgatc attctggcag aaaccccaag 4020
95 atattgtcga agggtaacca atgctactt accttctata aagcctgttag accaccccaa 4080
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97 aaaaaaaaaaaaaaaa 4157
101 <210> SEQ ID NO: 2
102 <211> LENGTH: 1158
103 <212> TYPE: PRT
104 <213> ORGANISM: Murine TRP8
106 <400> SEQUENCE: 2
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108 1 5 10 15
109 Asp Gly Trp Glu Pro Ile Leu Cys Arg Gly Glu Ile Asn Phe Gly Gly
110 20 25 30
111 Ser Gly Lys Lys Arg Gly Lys Phe Val Lys Val Pro Ser Ser Val Ala
112 35 40 45

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113 Pro Ser Val Leu Phe Glu Leu Leu Leu Thr Glu Trp His Leu Pro Ala
114 50 55 60
115 Pro Asn Leu Val Val Ser Leu Val Gly Glu Glu Arg Pro Leu Ala Met
116 65 70 75 80
117 Lys Ser Trp Leu Arg Asp Val Leu Arg Lys Gly Leu Val Lys Ala Ala
118 85 90 95
119 Gln Ser Thr Gly Ala Trp Ile Leu Thr Ser Ala Leu His Val Gly Leu
120 100 105 110
121 Ala Arg His Val Gly Gln Ala Val Arg Asp His Ser Leu Ala Ser Thr
122 115 120 125
123 Ser Thr Lys Ile Arg Val Val Ala Ile Gly Met Ala Ser Leu Asp Arg
124 130 135 140
125 Ile Leu His Arg Gln Leu Leu Asp Gly Val His Gln Lys Glu Asp Thr
126 145 150 155 160
127 Pro Ile His Tyr Pro Ala Asp Glu Gly Asn Ile Gln Gly Pro Leu Cys
128 165 170 175
129 Pro Leu Asp Ser Asn Leu Ser His Phe Ile Leu Val Glu Ser Gly Ala
130 180 185 190
131 Leu Gly Ser Gly Asn Asp Gly Leu Thr Glu Leu Gln Leu Ser Leu Glu
132 195 200 205
133 Lys His Ile Ser Gln Gln Arg Thr Gly Tyr Gly Gly Thr Ser Cys Ile
134 210 215 220
135 Gln Ile Pro Val Leu Cys Leu Leu Val Asn Gly Asp Pro Asn Thr Leu
136 225 230 235 240
137 Glu Arg Ile Ser Arg Ala Val Glu Gln Ala Ala Pro Trp Leu Ile Leu
138 245 250 255
139 Ala Gly Ser Gly Gly Ile Ala Asp Val Leu Ala Ala Leu Val Ser Gln
140 260 265 270
141 Pro His Leu Leu Val Pro Gln Val Ala Glu Lys Gln Phe Arg Glu Lys
142 275 280 285
143 Phe Pro Ser Glu Cys Phe Ser Trp Glu Ala Ile Val His Trp Thr Glu
144 290 295 300
145 Leu Leu Gln Asn Ile Ala Ala His Pro His Leu Leu Thr Val Tyr Asp
146 305 310 315 320
147 Phe Glu Gln Glu Gly Ser Glu Asp Leu Asp Thr Val Ile Leu Lys Ala
148 325 330 335
149 Leu Val Lys Ala Cys Lys Ser His Ser Gln Glu Ala Gln Asp Tyr Leu
150 340 345 350
151 Asp Glu Leu Lys Leu Ala Val Ala Trp Asp Arg Val Asp Ile Ala Lys
152 355 360 365
153 Ser Glu Ile Phe Asn Gly Asp Val Glu Trp Lys Ser Cys Asp Leu Glu
154 370 375 380
155 Glu Val Met Thr Asp Ala Leu Val Ser Asn Lys Pro Asp Phe Val Arg
156 385 390 395 400
157 Leu Phe Val Asp Ser Gly Ala Asp Met Ala Glu Phe Leu Thr Tyr Gly
158 405 410 415
159 Arg Leu Gln Gln Leu Tyr His Ser Val Ser Pro Lys Ser Leu Leu Phe
160 420 425 430
161 Glu Leu Leu Gln Arg Lys His Glu Glu Gly Arg Leu Thr Leu Ala Gly

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162	435	440	445													
163	Leu	Gly	Ala	Gln	Gln	Ala	Arg	Glu	Leu	Pro	Ile	Gly	Leu	Pro	Ala	Phe
164	450	455	460													
165	Ser	Leu	His	Glu	Val	Ser	Arg	Val	Leu	Lys	Asp	Phe	Leu	His	Asp	Ala
166	465	470	475	480												
167	Cys	Arg	Gly	Phe	Tyr	Gln	Asp	Gly	Arg	Arg	Met	Glu	Glu	Arg	Gly	Pro
168	485	490	495													
169	Pro	Lys	Arg	Pro	Ala	Gly	Gln	Lys	Trp	Leu	Pro	Asp	Leu	Ser	Arg	Lys
170	500	505	510													
171	Ser	Glu	Asp	Pro	Trp	Arg	Asp	Leu	Phe	Leu	Trp	Ala	Val	Leu	Gln	Asn
172	515	520	525													
173	Arg	Tyr	Glu	Met	Ala	Thr	Tyr	Phe	Trp	Ala	Met	Gly	Arg	Glu	Gly	Val
174	530	535	540													
175	Ala	Ala	Ala	Leu	Ala	Ala	Cys	Lys	Ile	Ile	Lys	Glu	Met	Ser	His	Leu
176	545	550	555	560												
177	Glu	Lys	Glu	Ala	Glu	Val	Ala	Arg	Thr	Met	Arg	Glu	Ala	Lys	Tyr	Glu
178	565	570	575													
179	Gln	Leu	Ala	Leu	Asp	Leu	Phe	Ser	Glu	Cys	Tyr	Gly	Asn	Ser	Glu	Asp
180	580	585	590													
181	Arg	Ala	Phe	Ala	Leu	Leu	Val	Arg	Arg	Asn	His	Ser	Trp	Ser	Arg	Thr
182	595	600	605													
183	Thr	Cys	Leu	His	Leu	Ala	Thr	Glu	Ala	Asp	Ala	Lys	Ala	Phe	Phe	Ala
184	610	615	620													
185	His	Asp	Gly	Val	Gln	Ala	Phe	Leu	Thr	Lys	Ile	Trp	Trp	Gly	Asp	Met
186	625	630	635	640												
187	Ala	Thr	Gly	Thr	Pro	Ile	Leu	Arg	Leu	Leu	Gly	Ala	Phe	Thr	Cys	Pro
188	645	650	655													
189	Ala	Leu	Ile	Tyr	Thr	Asn	Leu	Ile	Ser	Phe	Ser	Glu	Asp	Ala	Pro	Gln
190	660	665	670													
191	Arg	Met	Asp	Leu	Glu	Asp	Leu	Gln	Glu	Pro	Asp	Ser	Leu	Asp	Met	Glu
192	675	680	685													
193	Lys	Ser	Phe	Leu	Cys	Ser	Arg	Gly	Gly	Gln	Leu	Glu	Lys	Leu	Thr	Glu
194	690	695	700													
195	Ala	Pro	Arg	Ala	Pro	Gly	Asp	Leu	Gly	Pro	Gln	Ala	Ala	Phe	Leu	Leu
196	705	710	715	720												
197	Thr	Arg	Trp	Arg	Lys	Phe	Trp	Gly	Ala	Pro	Val	Thr	Val	Phe	Leu	Gly
198	725	730	735													
199	Asn	Val	Val	Met	Tyr	Phe	Ala	Phe	Leu	Phe	Leu	Phe	Thr	Tyr	Val	Leu
200	740	745	750													
201	Leu	Val	Asp	Phe	Arg	Pro	Pro	Pro	Gln	Gly	Pro	Ser	Gly	Ser	Glu	Val
202	755	760	765													
203	Thr	Leu	Tyr	Phe	Trp	Val	Phe	Thr	Leu	Val	Leu	Glu	Glu	Ile	Arg	Gln
204	770	775	780													
205	Gly	Phe	Phe	Thr	Asp	Glu	Asp	Thr	His	Leu	Val	Lys	Lys	Phe	Thr	Leu
206	785	790	795	800												
207	Tyr	Val	Glu	Asp	Asn	Trp	Asn	Lys	Cys	Asp	Met	Val	Ala	Ile	Phe	Leu
208	805	810	815													
209	Phe	Ile	Val	Gly	Val	Thr	Cys	Arg	Met	Val	Pro	Ser	Val	Phe	Glu	Ala
210	820	825	830													

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211 Gly Arg Thr Val Leu Ala Ile Asp Phe Met Val Phe Thr Leu Arg Leu
 212 835 840 845
 213 Ile His Ile Phe Ala Ile His Lys Gln Leu Gly Pro Lys Ile Ile Ile
 214 850 855 860
 215 Val Glu Arg Met Met Lys Asp Val Phe Phe Phe Leu Phe Leu Ser
 216 865 870 875 880
 217 Val Trp Leu Val Ala Tyr Gly Val Thr Thr Gln Ala Leu Leu His Pro
 218 885 890 895
 219 His Asp Gly Arg Leu Glu Trp Ile Phe Arg Arg Val Leu Tyr Arg Pro
 220 900 905 910
 221 Tyr Leu Gln Ile Phe Gly Gln Ile Pro Leu Asp Glu Ile Asp Glu Ala
 222 915 920 925
 223 Arg Val Asn Cys Ser Leu His Pro Leu Leu Leu Glu Ser Ser Ala Ser
 224 930 935 940
 225 Cys Pro Asn Leu Tyr Ala Asn Trp Leu Val Ile Leu Leu Leu Val Thr
 226 945 950 955 960
 227 Phe Leu Leu Val Thr Asn Val Leu Leu Met Asn Leu Leu Ile Ala Met
 228 965 970 975
 229 Phe Ser Tyr Thr Phe Gln Val Val Gln Gly Asn Ala Asp Met Phe Trp
 230 980 985 990
 231 Lys Phe Gln Arg Tyr His Leu Ile Val Glu Tyr His Gly Arg Pro Ala
 232 995 1000 1005
 233 Leu Ala Pro Pro Phe Ile Leu Leu Ser His Leu Ser Leu Val Leu Lys
 234 1010 1015 1020
 235 Gln Val Phe Arg Lys Glu Ala Gln His Lys Arg Gln His Leu Glu Arg
 236 1025 1030 1035 1040
 237 Asp Leu Pro Asp Pro Leu Asp Gln Lys Ile Ile Thr Trp Glu Thr Val
 238 1045 1050 1055
 239 Gln Lys Glu Asn Phe Leu Ser Thr Met Glu Lys Arg Arg Arg Asp Ser
 240 1060 1065 1070
 241 Glu Gly Glu Val Leu Arg Lys Thr Ala His Arg Val Asp Leu Ile Ala
 242 1075 1080 1085
 243 Lys Tyr Ile Gly Gly Leu Arg Glu Gln Glu Lys Arg Ile Lys Cys Leu
 244 1090 1095 1100
 245 Glu Ser Gln Ala Asn Tyr Cys Met Leu Leu Leu Ser Ser Met Thr Asp
 246 1105 1110 1115 1120
 247 Thr Leu Ala Pro Gly Gly Thr Tyr Ser Ser Ser Gln Asn Cys Gly Cys
 248 1125 1130 1135
 249 Arg Ser Gln Pro Ala Ser Ala Arg Asp Arg Glu Tyr Leu Glu Ser Gly
 250 1140 1145 1150
 251 Leu Pro Pro Ser Asp Thr
 252 1155
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 258 <211> LENGTH: 3000
 259 <212> TYPE: DNA
 260 <213> ORGANISM: human
 262 <400> SEQUENCE: 3
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 264 ctggggcttgc acaggggcga ggtcaacttt ggagggtctg ggaagaagcg aggcaagttt 120

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